JOB SHEET 2-4-46
SCIT, HAIL AND TVS DISPLAY PARAMETERS EDIT SCREEN

INTRODUCTION

This extended adaptation edit screen allows the PUP operator to define the parameters the PUP uses when displaying Storm Track Information (STI), Hail Index (HI), and TVS products and overlays. The edit screen is divided into three sections. The top section defines display parameters for the Storm Track Information (STI) product and overlay which are produced by the Storm Cell Identification and Tracking (SCIT) Algorithm. The middle section defines display thresholds for the Hail Index (HI) product and overlay which are produced by the Hail Detection Algorithm (HDA), and the bottom section controls whether or not elevated TVS symbols will appear on TVS products and overlays, which are produced by the TDA algorithm.

OBJECTIVE

Use the SCIT, HDA and TVS Display Parameters Edit Screen of the Extended Adaptation Menu to edit the display parameters of the Storm Tracking Information (STI), Hail Index (HI), and TVS products.

REFERENCES

NWS EHB 6-531-1, USER'S GUIDE: PUP/RPGOP, Section 13.2.9

PROCEDURE

1.   From the Main Menu, type **AD,FESTUS** and press **RETURN**.

-      The Extended Adaptation Data Menu displays.

-      Note that "FESTUS" is our first level password. The password is case sensitive and must be capitalized. The password at your office may be different, check with your Radar Focal Point.

2.   At the Extended Adaptation Data Menu, type **S** and press **RETURN**.

-      The SCIT HDA and TVS Display Parameters Edit Screen Menu displays with the cursor located at the first editable field.

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                              MAIN MENU

   COMMAND:  AD,FESTUS
   FEEDBACK:

   Enter command and press return.  For assistance, press the HELP button (F5).

   (C)ONTROL
   (S)TATUS
   (D)ISPLAY
   (R)OUTINE PRODUCT SET
   (G)EN AND DISTRIBUTE PRODUCTS
   (T)IME LAPSE
   (A)RCHIVE
   (U)SER FUNCTION
   (AD)APTATION DATA
   (M)ONITOR PERFORMANCE
   (H)ELP

   UNACKNOWLEDGED ALERTS               ALPHA PRODUCT QUEUE INDICATOR
   ACKNOWLEDGED ALERTS                 RPG PRODUCT REQUEST STATUS
   SYSTEM STATUS
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                    EXTENDED ADAPTATION DATA MENU

   COMMAND:  AD,*****,S
   FEEDBACK:

   Enter command.

   (P)RECEDENCE OF OVERLAYS *
   (C)OLORS, (P)RODUCT, <PROD-ID#> , (C)OLOR SCALE, <screen> **
                                   , (G)RAY SC ALE,  <screen>
                                   , (H)ARDCOPY *
               , (S)AVE COLOR SELECTIONS
                , (C)ANCEL COLOR SELECTION MODE
   (RCM) PARAMETERS *
   (D)IAL IN OTHER USER LIST *
   (R)PG LIST *
   (N)ARROWBAND LINE DEFINITIONS *
   (S)CIT HDA AND TVS DISPLAY PARAMETERS *
   (PASS)WORD CHANGE, <New Password>
   NUMERICALLY EDITABLE DATA

    *Footnote:   Enters edit screen at this point.
   **Footnote:   Enters color selection mode at this point.
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3. a. The top section of this menu determines how many cells are displayed on the Storm Track Information (STI) product/overlay and the display of past or forecast positions. The priority for displaying cells starts with the storm cell with the highest Cell-based VIL value and continues in decreasing Cell-based VIL order, until the number of cells displayed reaches the value contained in the "**Number of Cells to Display**" line. Keep in mind that the higher the value the more cluttered the screen becomes. If the message "**## CELLS IN WINDOW NOT DISPLAYED**" appears at the lower edge of an STI product, it indicates that more cells are located within the current display window but the "**Number of Cells to Display**" parameter has been exceeded.

The "**Display Past Positions**" line displays or does not display the storm cell positions for past volume scans as well as the line that connects them. Placing a "N" in this field suppresses the display of past storm cell positions. Placing a "Y" in this field enables the display of past storm cell positions.

The "**Display Forecast Positions**" line displays or does not display the forecast storm cell positions as well as the line that connects them. Placing a "N" in this field suppresses the display of forecast storm cell positions. Placing a "Y" in this field enables the display of forecast storm cell positions.

SCIT HDA AND TVS DISPLAY PARAMETERS EDIT SCREEN
COMMAND: AD,*****,S
FEEDBACK:

3a   Enter the display parameters and press RETURN. Changes take effect immediately.

              SCIT   Number of cells to display (0 TO 100)   :   20
              Display past positions?   (Y OR N)   :   Y
              Display forecast positions? (Y OR N) :   Y

              HDA   Probability of Hail
                         Minimum display threshold (10% to 100%, or D*) :   40
                         Symbol fill-in threshold   (10% to 100%)   :   70

                       Probability of Severe Hail
                         Minimum display threshold (10% to 100%, or D*) :   40
                         Symbol fill-in threshold   (10% to 100%)   :   70

              TVS   Display Elevated Tornado Vortex Signatures? (Y or N)   :   Y

              *Entering the letter D here will disable the display of this symbol.

3.   b.   The HDA section contains four fields which apply to the Hail Index (HI) product and overlay.

The "***Probability of Hail, Minimum Display Threshold***" value is the lowest percentage that must be met before a Probability of Hail symbol (small green triangle) is displayed for a given storm cell as part of the HI product or overlay. A "***D***" in this field will disable any display of the Probability of Hail Symbol on the HI product or overlay. When the hail symbol is disabled, the storm cell ID still displays.

The "***Probability of Hail, Symbol Fill-in Threshold***" value is the lowest percentage that must be met before the Probability of Hail symbol (small green triangle) is displayed as a solid, filled-in triangle. The hail symbol for a cell with a Probability of Hail less than this value but equal to or greater than the Minimum Display Threshold is displayed as an open small triangle. In the example on the next page, the Probability of Hail (POH) must be greater than or equal to 70% before the small green triangle is displayed as a solid, filled-in triangle.

The "***Probability of Severe Hail, Minimum Display Threshold***" value is the lowest percentage that must be met before a Probability of Severe Hail symbol (larger green triangle) is displayed for a given storm cell as part of the HI product or overlay. A "***D***" in this field will disable any display of the Probability of Severe Hail symbol on the HI product or overlay. When the hail symbol is disabled, the storm cell ID still displays.

The "***Probability of Severe Hail, Symbol Fill-in Threshold***" value is the lowest percentage that must be met before the Probability of Severe Hail symbol (larger green triangle) is displayed as a solid, filled-in triangle. The hail symbol for a cell with a Probability of Severe hail less than this value but equal to or greater than the Minimum Display Threshold is displayed as an open larger triangle. In the example on the next page, the Probability of Severe Hail (POSH) must be greater than or equal to 70% before the larger green triangle is displayed as a solid filled-in triangle.   Note that the Severe Hail symbols have the estimated hail size inside the triangle.

3b

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                    SCIT HDA AND TVS DISPLAY PARAMETERS EDIT SCREEN
COMMAND: AD,*****,S
FEEDBACK:


Enter the display parameters and press RETURN.  Changes take effect immediately.

    SCIT    Number of cells to display (0 TO 100)  :    20
            Display past positions?  (Y OR N )     :     Y
            Display forecast positions?  (Y OR N)  :     Y

       HDA      Probability of Hail
                    Minimum display threshold (10% to 100%, or D*)  :    40
                    Symbol fill-in threshold   (10% to 100%)        :    70

                Probability of Severe Hail
                    Minimum display threshold (10% to 100%, or D*)  :    40
                    Symbol fill-in threshold   (10% to 100%)        :    70

     TVS    Display Elevated Tornado Vortex Signatures?  (Y or N)   :   Y


     *Entering the letter D to disable the display of a particular symbol.
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3   c.   The TVS section contains one field which applies to the TVS product
               and overlay.

               The "***Display Elevated Tornado Vortex Signatures***" value
               determines whether elevated TVS symbols (inverted red, non-filled
               triangles) will appear on the graphics display. By default, elevated
               TVSs are <u>not</u> displayed. This value serves as a toggle, and is
               available to give operators some control over the number of symbols
               which appear on the display. TVS symbols (inverted red filled
               triangles) will always appear whether or not ETVSs are set for display.

4.   Use the **<u>Tab key</u>** to move through the different fields and change the values
        of this edit screen. To save the changes press **RETURN**.

   -    These changes take effect immediately.

5.   After you make your changes, use the Graphic Tablet to display the STI, HI
        and TVS products to see the effect of your edits.

   -    Do this step several times to see how your edits change the appearence of
        the products.

6.   When finished, change the values back to the defaults shown on the SCIT
        HDA and TVS display parameters edit screen below   .

END

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                    SCIT HDA AND TVS DISPLAY PARAMETERS EDIT SCREEN
          COMMAND: AD,*****,S
          FEEDBACK:


          Enter the display parameters and press RETURN.  Changes take effect immediately.

              SCIT    Number of cells to display (0 TO 100)  :    20
                      Display past positions?   (Y OR N )     :     Y
                      Display forecast positions?  (Y OR N)  :     Y

              HDA     Probability of Hail
                         Minimum display threshold (10% to 100%, or D*)    :    40
                         Symbol fill-in threshold   (10% to 100%)              :    70

                      Probability of Severe Hail
                         Minimum display threshold (10% to 100%, or D*)    :    40
                         Symbol fill-in threshold   (10% to 100%)              :    70

              TVS      Display Elevated Tornado Vortex Signatures?  (Y or N)   :    Y


              *Entering the letter D to disable the display of a particular symbol.
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3c
4
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